

FIGURE 1A

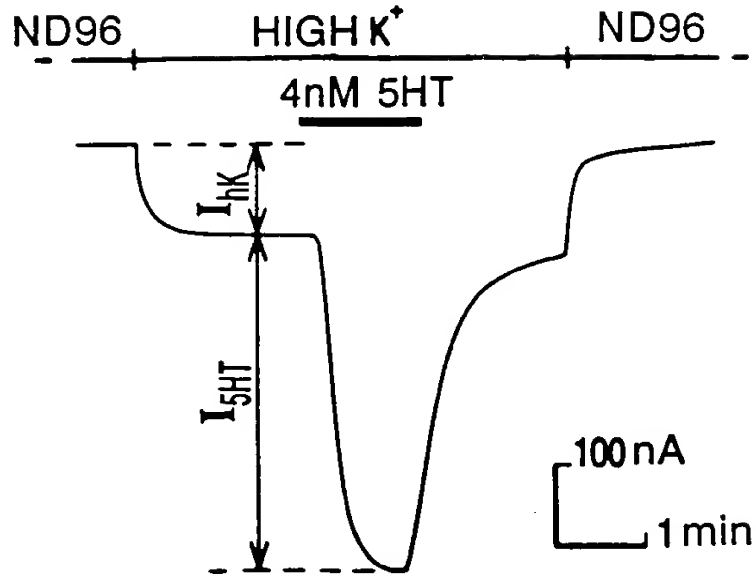


FIGURE 1B

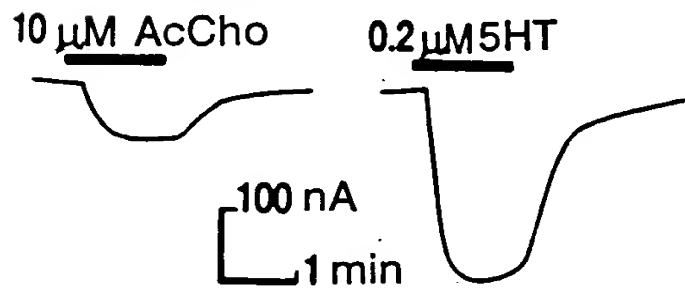


FIGURE 1C

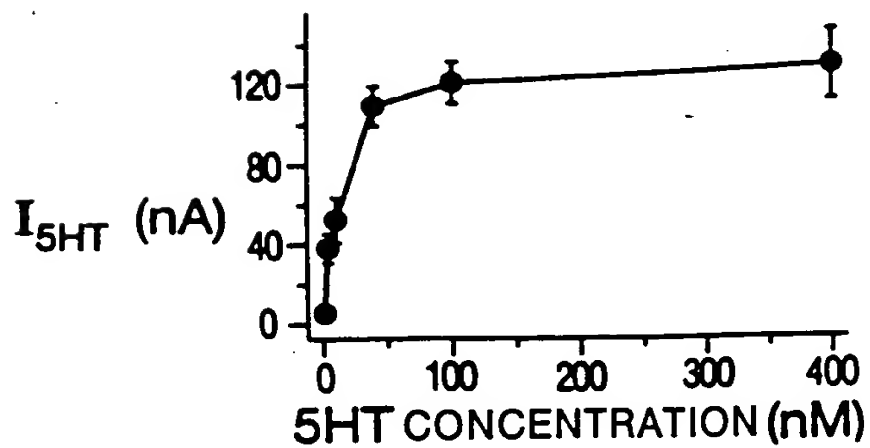


FIGURE 2A

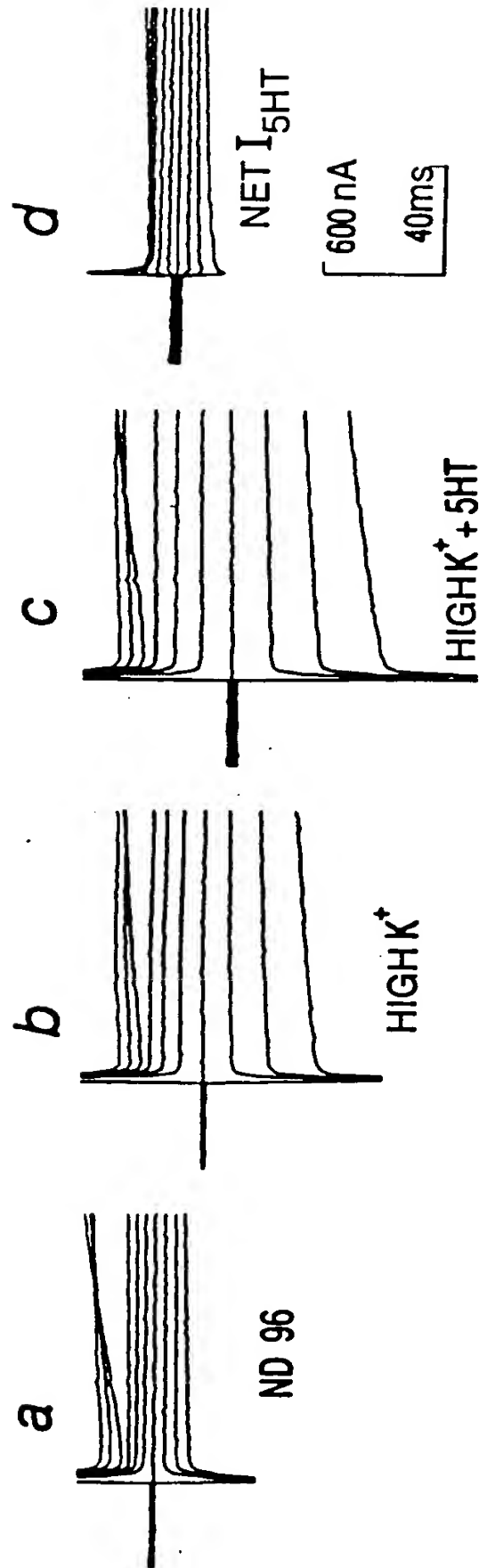


FIGURE 2B

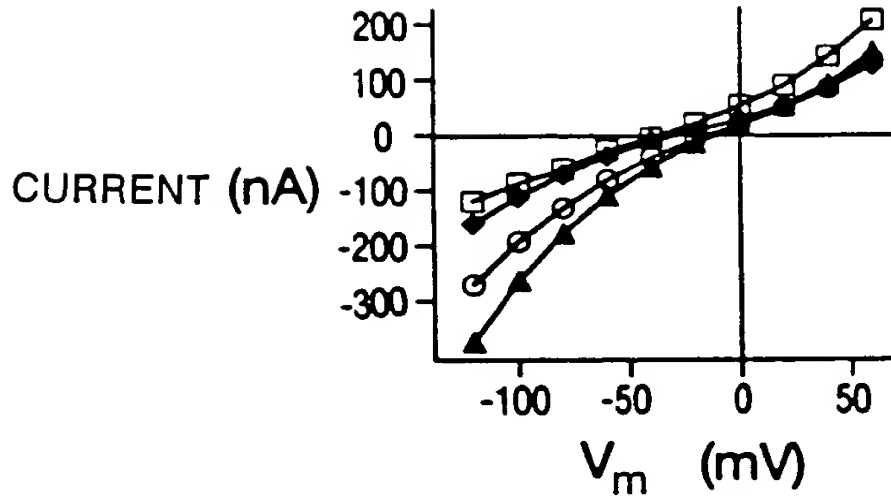


FIGURE 2C

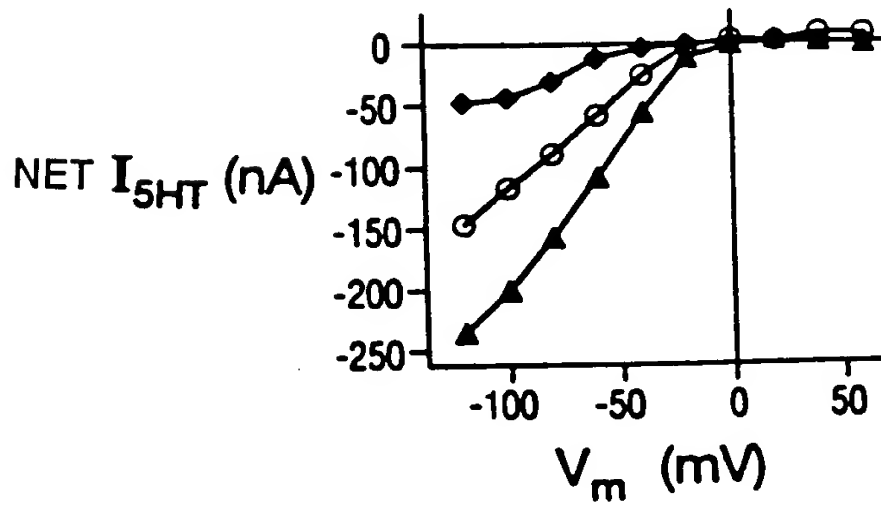


FIGURE 2D

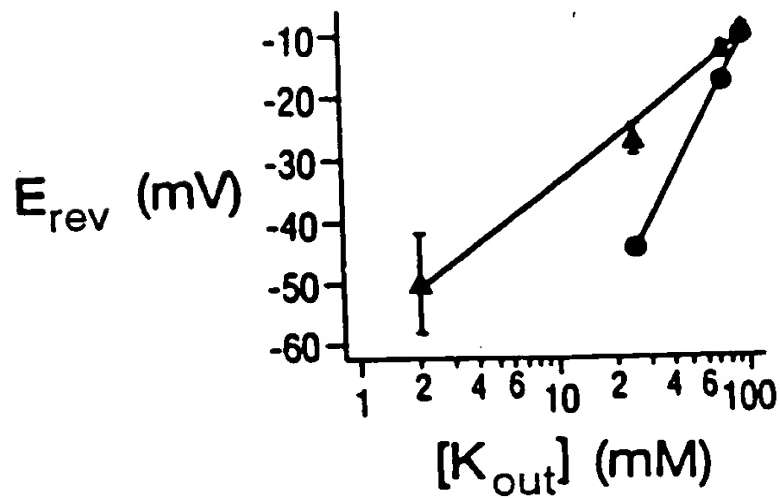


FIGURE 3C

FIGURE 3B

FIGURE 3A

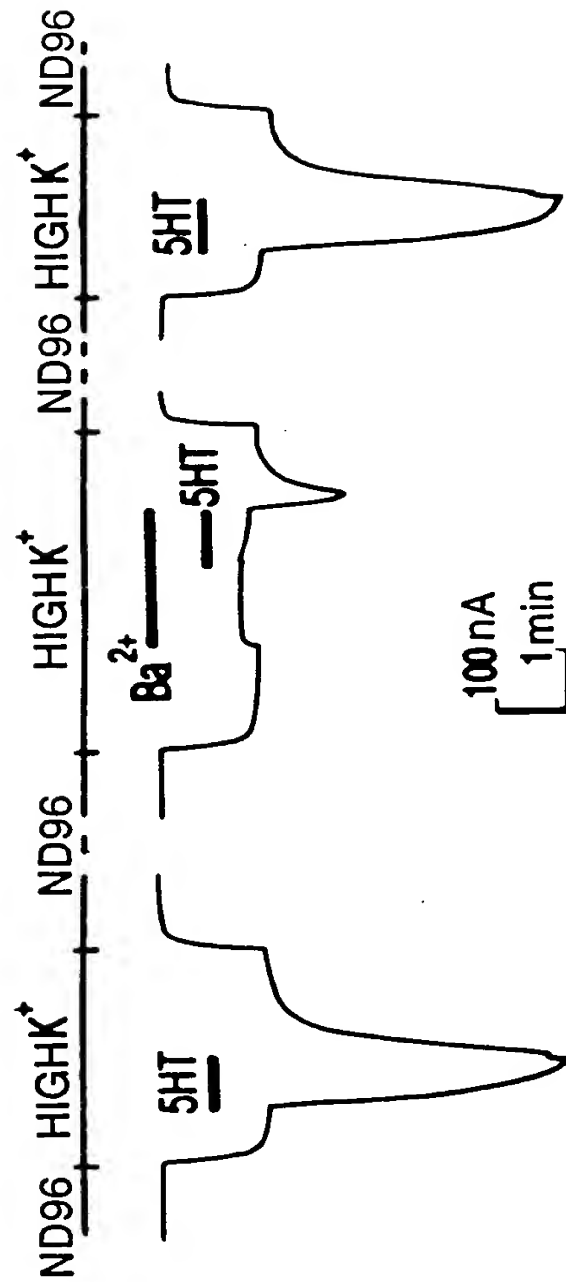


FIGURE 3D

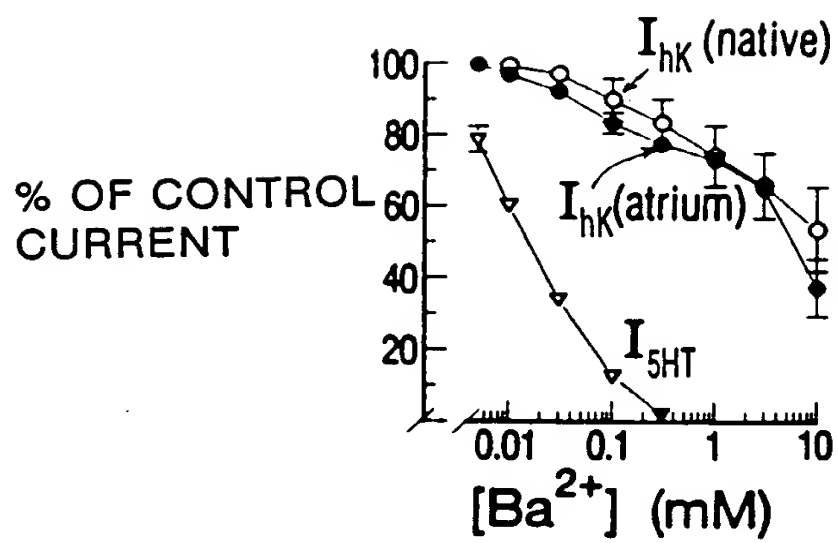


FIGURE 4A

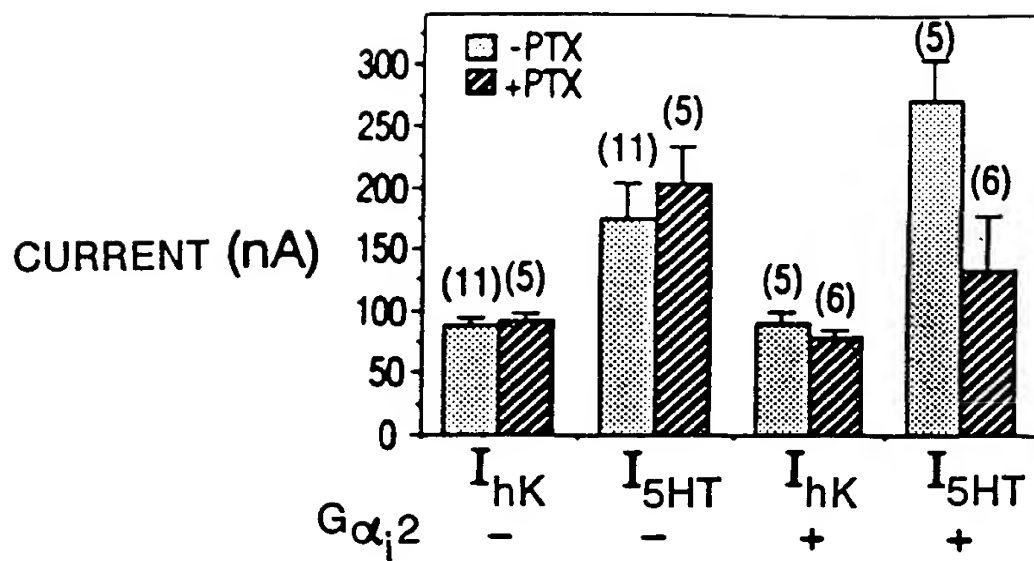


FIGURE 4B

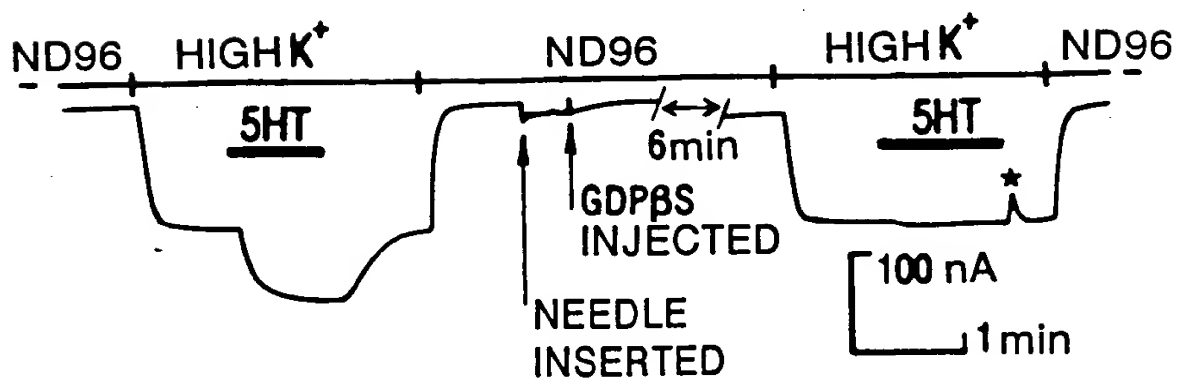


FIGURE 5

1	GGCA	CGA	GAA	TCT	GGA	TCT	CCC	CTC	CGT	ATT	ATG	TCT	GCA	CTC	CGA	46
1										M	S	A	L	R		5
47	AGG	AAA	TTT	GGG	GAC	GAT	TAC	CAG	GTA	GTG	ACC	ACT	TCG	TCC	AGC	91
6	R	K	F	G	D	D	Y	Q	V	V	T	T	S	S	S	20
92	GGT	TCG	GGC	TTG	CAG	CCC	CAG	GGG	CCA	GGA	CAG	GGC	CCA	CAG	CAG	136
21	G	S	G	L	Q	P	Q	G	P	G	Q	G	P	Q	Q	35
137	CAG	CTT	GTA	CCC	AAG	AAG	AAA	CGG	CAG	CGG	TTC	GTG	GAC	AAG	AAC	181
36	Q	L	V	P	K	K	K	R	Q	R	F	V	D	K	N	50
182	GGT	CGG	TGC	AAT	GTG	CAG	CAC	GGC	AAC	CTG	GGC	AGC	GAG	ACC	AGT	226
51	G	R	C	N	V	Q	H	G	N	L	G	S	E	T	S	65
227	CGC	TAC	CTT	TCC	GAC	CTC	TTC	ACT	ACC	CTG	GTG	GAT	CTC	AAG	TGG	271
66	R	Y	L	S	D	L	F	T	T	L	V	D	L	K	W	80
272	CGT	TGG	AAC	CTC	TTT	ATC	TTC	ATC	CTC	ACC	TAC	ACC	GTG	GCC	TGG	316
81	R	W	N	L	F	I	F	I	L	T	Y	T	V	A	W	95
317	CTC	TTC	ATG	GCG	TCC	ATG	TGG	TGG	GTG	ATC	GCT	TAT	ACC	CGG	GGC	361
96	L	F	M	A	S	M	W	W	V	I	A	Y	T	R	G	110
362	GAC	CTG	AAC	AAA	GCC	CAT	GTC	GGC	AAC	TAC	ACT	CCC	TGT	GTG	GCC	406
111	D	L	N	K	A	H	V	G	N	Y	T	P	C	V	A	125
407	AAT	GTC	TAT	AAC	TTC	CCC	TCT	GCC	TTC	CTT	TTC	TTC	ATC	GAG	ACC	451
126	N	V	Y	N	F	P	S	A	F	L	F	F	I	E	T	140
452	GAG	GCC	ACC	ATC	GGC	TAT	GGC	TAC	CGC	TAC	ATC	ACC	GAC	AAG	TGC	496
141	E	A	T	I	G	Y	G	Y	R	Y	I	T	D	K	C	155
497	CCC	GAG	GGC	ATC	ATC	CTT	TTC	CTT	TTC	CAG	TCC	ATC	CTT	GGC	TCC	541
156	P	E	G	I	I	L	F	L	F	Q	S	I	L	G	S	170
542	ATC	GTG	GAC	GCT	TTC	CTC	ATC	GGC	TGC	ATG	TTC	ATC	AAG	ATG	TCC	586
171	I	V	D	A	F	L	I	G	C	M	F	I	K	M	S	185
587	CAG	CCC	AAA	AAG	CGC	GCC	GAG	ACC	CTC	ATG	TTT	AGC	GAG	CAT	GCG	631
186	Q	P	K	K	R	A	E	T	L	M	F	S	E	H	A	200
632	GTT	ATT	TCC	ATG	AGG	GAC	GGA	AAA	CTC	ACT	CTC	ATG	TTC	CGG	GTG	676
201	V	I	S	M	R	D	G	K	L	T	L	M	F	R	V	215
677	GGC	AAC	CTG	CGC	AAC	AGC	CAC	ATG	GTC	TCC	GCG	CAG	ATC	CGC	TGC	721
216	G	N	L	R	N	S	H	M	V	S	A	Q	I	R	C	230
722	AAG	CTG	CTC	AAA	TCT	CGG	CAG	ACA	CCT	GAG	GGT	GAG	TTT	CTA	CCC	766
231	K	L	L	K	S	R	Q	T	P	E	G	E	F	L	P	245
767	CTT	GAC	CAA	CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	811
246	L	D	Q	L	E	L	D	V	G	F	S	T	G	A	D	260
812	CAA	CTT	TTT	CTT	GTG	TCC	CCT	CTC	ACC	ATT	TGC	CAC	GTG	ATC	GAT	856
261	Q	L	F	L	V	S	P	L	T	I	C	H	V	I	D	275
857	GCC	AAA	AGC	CCC	TTT	TAT	GAC	CTA	TCC	CAG	CGA	AGC	ATG	CAA	ACT	901
276	A	K	S	P	F	Y	D	L	S	Q	R	S	M	Q	T	290

FIGURE 5(CONT.)

902	GAA	CAG	TTC	GAG	GTG	GTC	GTC	ATC	CTG	GAA	GGC	ATC	GTG	GAA	ACC	946
291	E	Q	F	E	V	V	V	I	L	E	G	I	V	E	T	305
947	ACA	GGG	ATG	ACT	TGT	CAA	GCT	CGA	ACA	TCA	TAC	ACC	GAA	GAT	GAA	991
306	T	G	M	T	C	Q	A	R	T	S	Y	T	E	D	E	320
992	GTT	CTT	TGG	GGT	CAT	CGT	TTT	TTC	CCT	GTA	ATT	TCT	TTA	GAA	GAA	1036
321	V	L	W	G	H	R	F	F	P	V	I	S	L	E	E	335
1037	GGA	TTC	TTT	AAA	GTC	GAT	TAC	TCC	CAG	TTC	CAT	GCA	ACC	TTT	GAA	1081
336	G	F	F	K	V	D	Y	S	Q	F	H	A	T	F	E	350
1082	GTC	CCC	ACC	CCT	CCG	TAC	AGT	GTG	AAA	GAG	CAG	GAA	GAA	ATG	CTT	1126
351	V	P	T	P	P	Y	S	V	K	E	Q	E	E	M	L	365
1127	CTC	ATG	TCT	TCC	CCT	TTA	ATA	GCA	CCA	GCC	ATA	ACC	AAC	AGC	AAA	1171
366	L	M	S	S	P	L	I	A	P	A	I	T	N	S	K	380
1172	GAA	AGA	CAC	AAT	TCT	GTG	GAG	TGC	TTA	GAT	GGA	CTA	GAT	GAC	ATT	1216
381	E	R	H	N	S	V	E	C	L	D	G	L	D	D	I	395
1217	AGC	ACA	AAA	CTT	CCA	TCG	AAG	CTG	CAG	AAA	ATT	ACG	GGG	AGA	GAA	1261
396	S	T	K	L	P	S	K	L	Q	K	I	T	G	R	E	410
1262	GAC	TTT	CCC	AAA	AAA	CTC	CTG	AGG	ATG	AGT	TCT	ACA	ACT	TCA	GAA	1306
411	D	F	P	K	K	L	L	R	M	S	S	T	T	S	E	425
1307	AAA	GCC	TAT	AGT	TTG	GGT	GAT	TTG	CCC	ATG	AAA	CTC	CAA	CGA	ATA	1351
426	K	A	Y	S	L	G	D	L	P	M	K	L	Q	R	I	440
1352	AGT	TCG	GTT	CCT	GGC	AAC	TCT	GAA	GAA	AAA	CTG	GTA	TCT	AAA	ACC	1396
441	S	S	V	P	G	N	S	E	E	K	L	V	S	K	T	455
1397	ACC	AAG	ATG	TTA	TCA	GAT	CCC	ATG	AGC	CAG	TCT	GTG	GCC	GAT	TTG	1441
456	T	K	M	L	S	D	P	M	S	Q	S	V	A	D	L	470
1442	CCA	CCG	AAG	CTT	CAA	AAG	ATG	GCT	GGA	GGA	CCT	ACC	AGG	ATG	GAA	1486
471	P	P	K	L	Q	K	M	A	G	G	P	T	R	M	E	485
1487	GGG	AAT	CTT	CCA	GCC	AAA	CTA	AGA	AAA	ATG	AAC	TCT	GAC	CGC	TTC	1531
486	G	N	L	P	A	K	L	R	K	M	N	S	D	R	F	500
1532	ACA	TAG	CAA	AAC	ACC	CCA	TTA	GGC	ATT	ATT	TCA	TGT	TTT	GAT	TTA	1576
501	T	*														515
1577	GTT	TTA	GTC	CAA	TAT	TTG	GCT	GAT	AAG	ATA	ATC	CTC	CCC	GGG	AAA	1621
1622	TCT	GAG	AGG	TCT	ATC	CCA	GTC	TGG	CAA	ATT	CAT	CAG	AGG	ACT	CTT	1666
1667	CAT	TGA	AGT	GTT	GTT	ACT	GTG	TTG	AAC	ATG	AGT	TAC	AAA	GGG	AGG	1711
1712	ACA	TCA	TAA	GAA	AGC	TAA	TAG	TTG	GCA	TGT	ATT	ATC	ACA	TCA	AGC	1756
1757	ATG	CAA	TAA	TGT	GCA	AAT	TTT	GCA	TTT	AGT	TTT	CTG	GCA	TGA	TTT	1801
1802	ATA	TAT	GGC	ATA	TTT	ATA	TTG	AAT	ATT	CTG	GAA	AAA	TAT	ATA	AAT	1846
1847	ATA	TAT	TTG	AAG	TGG	AGA	TAT	TCT	CCC	CAT	AAT	TTC	TAA	TAT	ATG	1891
1892	TAT	TAA	GCC	AAA	CAT	GAG	TGG	ATA	GCT	TTC	AGG	GCA	CTA	AAA	TAA	1936
1937	TAT	ACA	TGC	ATA	CAT	ACA	TAC	ATG	CAT	ATG	CAC	AGA	CAC	ATA	CAC	1981

FIGURE 5 (CONT.)

1982	ACA CAT ACT CAT ATA TAT AAA ACA TAC CCA TAC AAA CAT ATA TAT	2026
2027	CTA ATA AAA ATT GTG ATG TTT TGT TCA AAA AAA AAA AAA AA	2070

1982
2027
2070